Claims

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- A method for producing a protein of interest in a host cell, wherein said host cell has
 been genetically modified in order to express significantly reduced levels of a
 metalloprotease comprising a HXXEH motif (SEQ ID NO 1), compared to the corresponding
 non-modified cell when cultured under identical conditions, the method comprising
 - a) introducing into the host cell a nucleic acid sequence encoding the protein of interest,
- b) cultivating the host cell of step (a) in a suitable growth medium for production of the protein of interest, and
 - c) isolating the protein of interest.
- 15 2. A method according to claim 1, wherein the metalloprotease further comprises a glutamic acid residue between 70 and 80 amino acids C-terminal of the second His residue in the HXXEH motif.
- 3. A method according to any of the preceding claims, wherein the metalloprotease20 further comprises a glysine residue 3 amino acids N-terminal of the first His residue in the HXXEH motif.
- A method according to any of the preceding claims, wherein the metalloprotease further comprises a glysine residue 5 amino acids C-terminal of the second His residue in
 the HXXEH motif.
 - 5. A method according to any of the preceding claims, wherein the metalloprotease further comprises a lysine residue 8 amino acids C-terminal of the second His residue in the HXXEH motif.
 - 6. A method according to any of the preceeding claims, wherein the metalloprotease further comprises a tyrosine residue 9 amino acids C-terminal of the second His residue in the HXXEH motif.
- 35 7. A method according to any of the preceding claims, wherein the metalloprotease further comprises a proline residue 10 amino acids C-terminal of the second His residue in the HXXEH motif.

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- 8. A method according to any of the preceding claims, wherein the metalloprotease further comprises the consensus sequence SEQ ID NO 2.
- 9. A method according to any of the preceding claims wherein the metalloprotease further5 comprises the consensus sequence SEQ ID NO 3.
 - 10. A method according to any of the preceding claims, wherein the metalloprotease further comprises a NAXTXXXXT motif between 20 and 30 amino acids C-terminal of the second His residue in the HXXEH motif.

11. A method according to any of the preceeding claims, wherein the metalloprotease is selected from:

i) any one of the group consisting of SEQ ID NO's 4 to 15, and

12. A method according to any of the preceding claims, wherein the metalloprotease is at least 80% identical to the SEQ ID NO: 4.

II) a sequence which is at least 80% identical to any one of SEQ ID NO's 4 to 15.

- 13. A method according to any of the preceding claims, wherein the total amount of the protein of interest is increased at least 5% compared the corresponding non-modified cell when cultured under identical conditions.
- 25 14. A method according to any of the preceding claims, wherein the total amount of the protein of interest is increased at least 50% more than the corresponding non-modified cell when cultured under identical conditions.
- 15. The method according to any of the preceding claims, in which the host cell is a 30 prokaryotic cell.
 - 16. The method according to any of claims 1-14, in which the host cell is a eukaryotic cell.
- 17. The method according to claim 16, in which the host cell is a non-filamentous fungal cell.
 - 18. The method according to claim 16, in which the host cell is a filamentous fungal cell.
 - 19. The method according to claim 17, in which the host cell is a strain of Saccharomycces.

- 20. The method according to claim 19, in which the host cell is Saccharomyces cerevisiae.
- 21. A host cell useful for the expression of a protein of interest, wherein said cell has been genetically modified in order to express significantly reduced levels of a metalloprotease comprising a HXXEH motif (SEQ ID NO 1) than the corresponding non-modified cell when cultured under identical conditions.
- 22. A host cell according to claim 21, wherein the metalloprotease further comprises the consensus sequence SEQ ID NO 3.